

TRIODE HEXODE

ECH35

Triode hexode for use as frequency changer in A.C. mains-operated receivers. The hexode section is designed for A.V.C.

HEATER

V_h	6.3	V
I_h	0.3	A

CAPACITANCES

	c_{gt-gl}	< 0.3 $\mu\mu F$
Hexode	c_{gl-k}	5.0 $\mu\mu F$
	c_{a-k}	10.0 $\mu\mu F$
	c_{a-gl}	< 0.003 $\mu\mu F$
Triode	c_{g-k}	9.0 $\mu\mu F$
	c_{a-k}	3.0 $\mu\mu F$
	c_{a-gl}	1.6 $\mu\mu F$

OPERATING CONDITIONS - HEXODE SECTION

(a) With fixed screen grid voltage

V_a			250	V
V_{g2+g4}			100	V
R_k			215	ohms
R_{g3}			50,000	ohms
I_{g3}			200	μA
V_{g1}	-2	-17	-23	V
I_a	3	-	-	mA
I_{g2+g4}	3	-	-	mA
g_c	650	6.5	1.5	$\mu A/V$
r_a	1.3	> 5.0	> 6.0	M.ohms

(b) With screen grid fed by a potentiometer (See diagram overleaf)

$V_a = V_b$			250	V
R_1			24,000	ohms
R_2			33,000	ohms
R_k			215	ohms
R_{g3}			50,000	ohms
I_{g3}			200	μA
V_{g1}	-2	-23.5	-31	V
V_{g2+g4}	100	-	145	V
I_{ah}	3	-	-	mA
I_{g2+g4}	3	-	-	mA
g_c	650	6.5	1.5	$\mu A/V$
r_a	1.3	> 3.0	> 4.0	M.ohms



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OPERATING CONDITIONS - TRIODE SECTION

V_b	100	250 V
R_a	-	45,000 ohms
I_a ($R_{gt} = 50,000$ ohms, $I_{gt} = 200 \mu A$)	3.3	3.3 mA
I_a ($V_{gt} = 0$ V) $V_{osc} = 0$ V)	10	4.5 mA
g_m ($V_{gt} = 0$ V, $V_{osc} = 0$ V)	2.8	2.2 mA/V
μ ($V_{gt} = 0$ V, $V_{osc} = 0$ V)	24	24

LIMITING VALUES - HEXODE SECTION

$V_a(b)$ max.	550 V
V_a max.	300 V
w_a max.	1.2 W
V_{g2+g4} (b) max	550 V
V_{g2+g4} max. ($I_a = 4.5$ mA)	125 V
V_{g2+g4} max. ($I_a = < 0.5$ mA)	200 V
w_{g2+g4} max.	0.6 W
V_{g1} max. ($I_{g1} = +0.3 \mu A$)	-1.3 V
V_{g3} max. ($I_{g3} = +0.3 \mu A$)	-1.3 V
I_k max.	15 mA
R_{g1-k} max.	3 Mohm
R_{h-k} max.	20,000 ohms
V_{h-k}	100 V
R_{g3-k}	0.1 Mohm

LIMITING VALUES - TRIODE SYSTEM

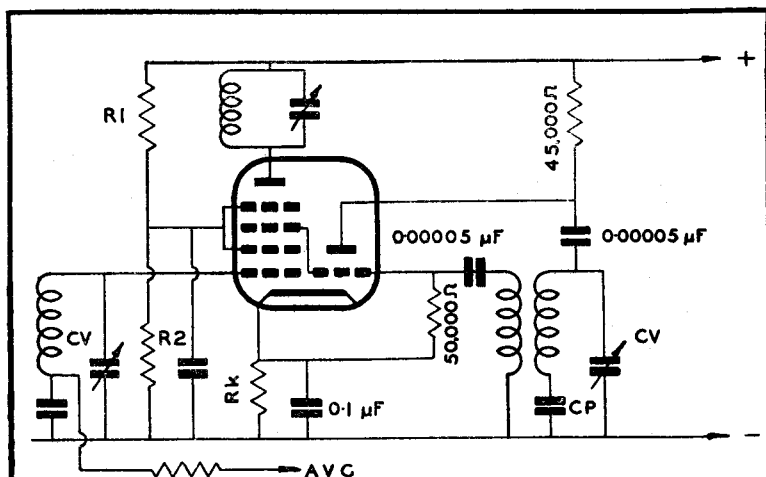
$V_a(b)$ max.	550 V
V_a max.	100 V
w_a max.	1.5 W
V_{gt} max. ($I_{g1} = +0.3 \mu A$)	-1.3 V
R_{gt} max.	100,000 ohms



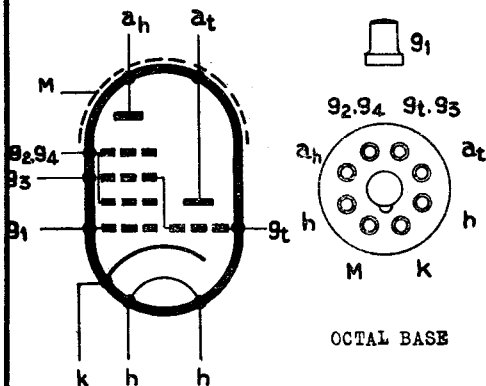
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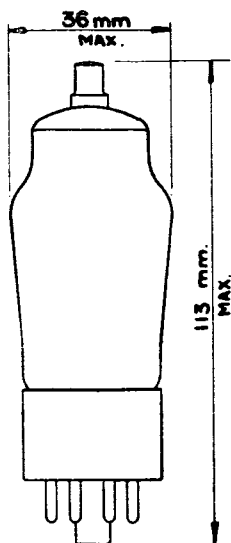


ARRANGEMENT OF ELECTRODES AND BASE CONNECTIONS



OCTAL BASE

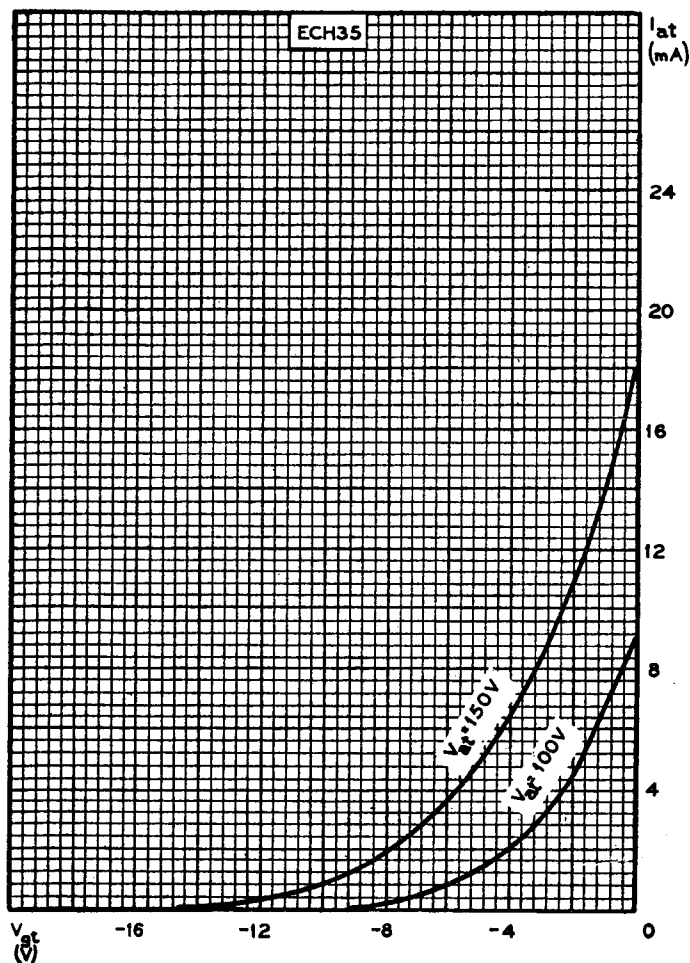
DIMENSIONS



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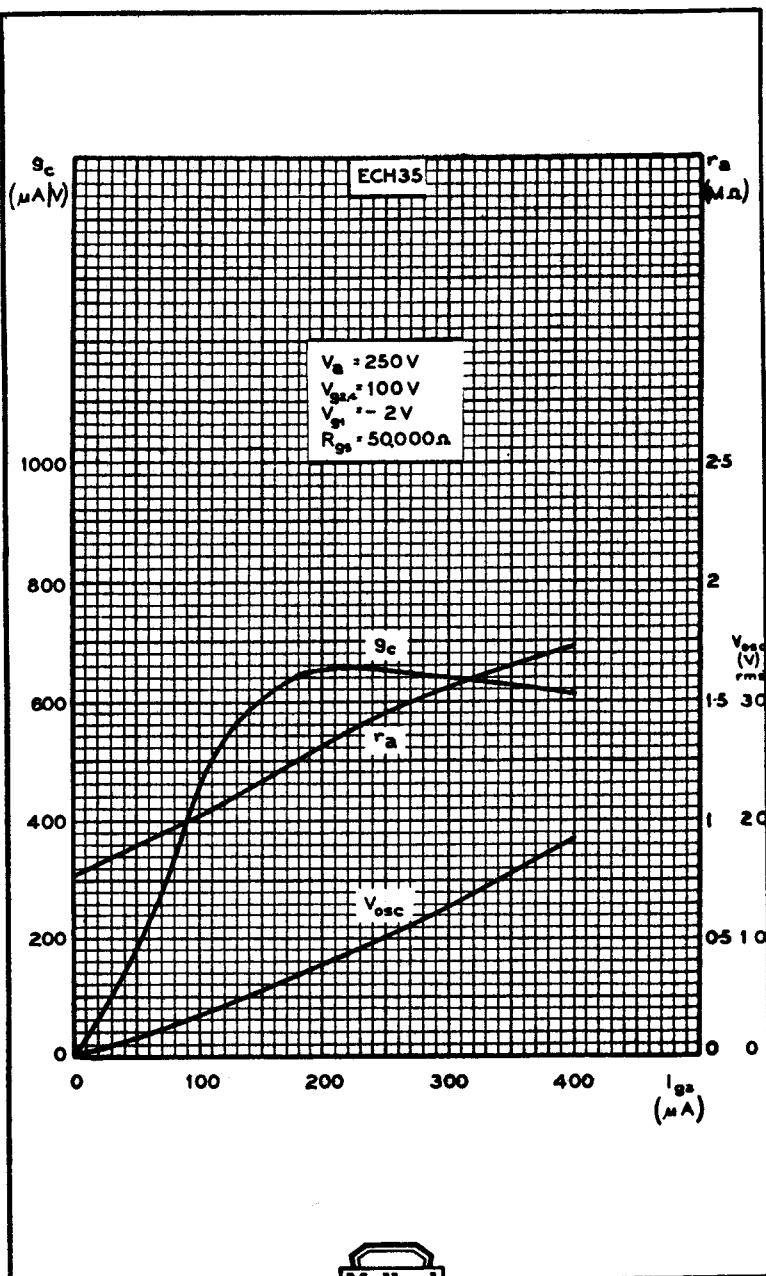
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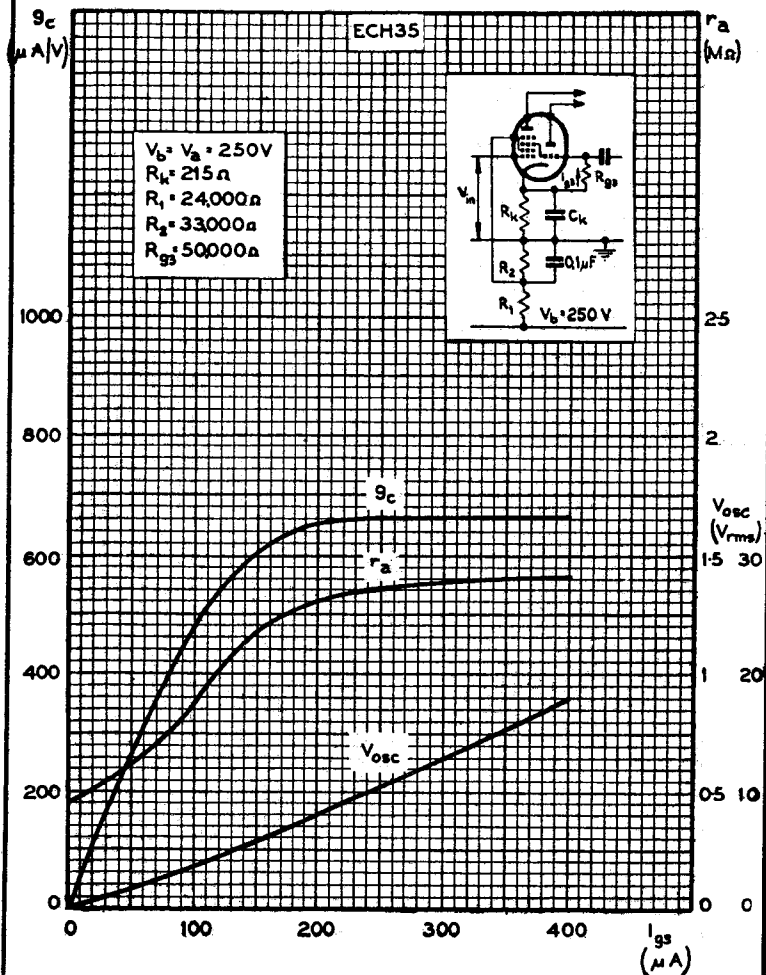
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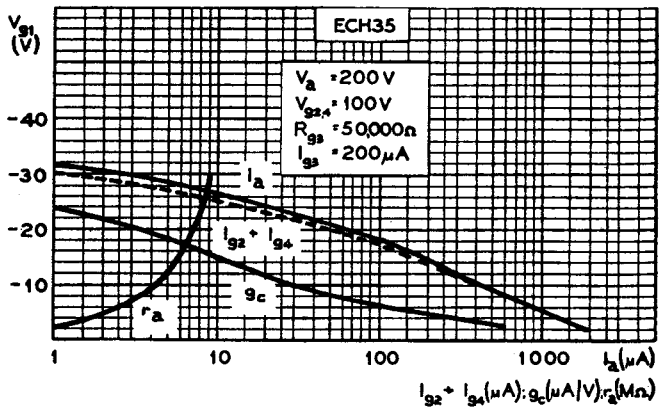
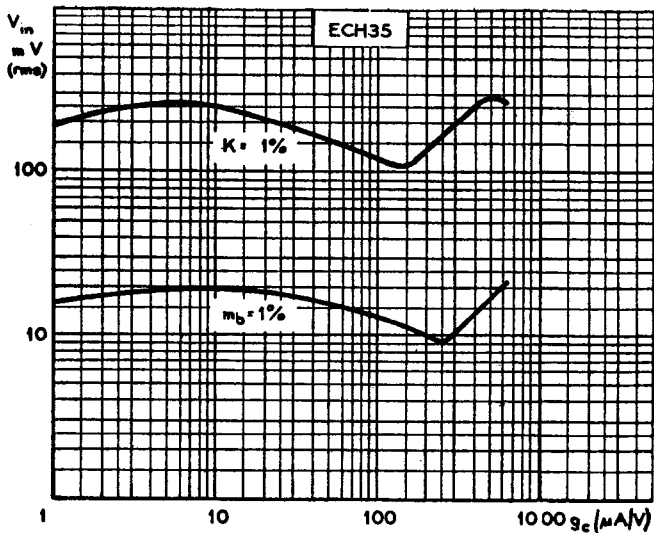
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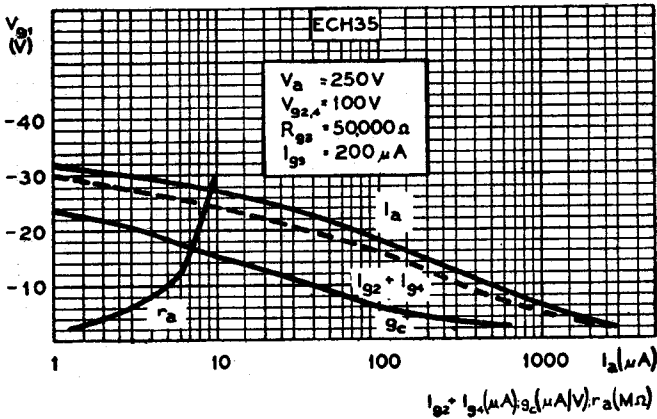
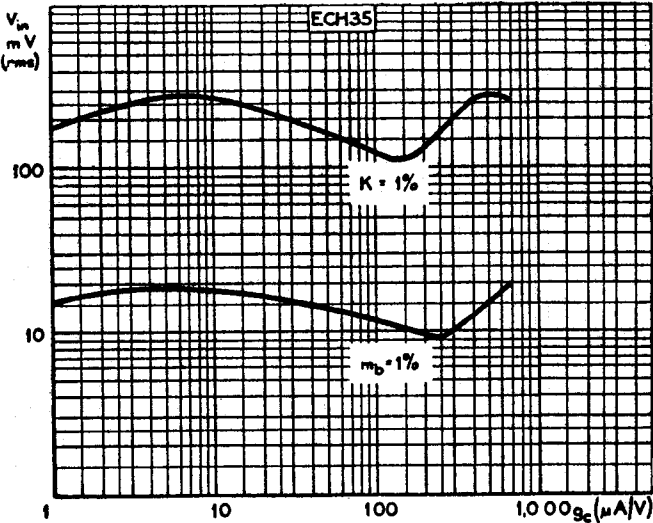
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